

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.	SERIAL NO.
<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p> <p>(37 CFR 1.98 (b))</p>		6763.US.P1	10/054,534
		APPLICANT	P. Mukerji, et al.
		FILING DATE	January 22, 2002
		GROUP	1632 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
DS	A1	5,972,664 A	10/26/1999	Knutzon, et al.	435	136	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE		SUB CLASS	TRANS- LATION
					CLASS	CLASS	YES NO
DS	B1	WO 93/06712 A	04/15/93	PCT			
DS	B2	WO 00/20603 A	04/13/00	PCT			
DS	B3	WO 02/26946	04/04/02	PCT			
DS	B4	WO 99/61602 A	12/02/99	PCT			
DS	B5	1035207 A	09/13/00	EPO			
DS	B6	WO 00/0075341	12/14/00	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

DS	C1	Qiu, Xiao, et al., "Identification of a DELTA4 Fatty Acid Desaturase from Thraustochytrium sp. Involved in the Biosynthesis of Docosahexanoic Acid by Heterologous Expression in <i>Saccharomyces Cerevisiae</i> and <i>Brassica Juncea</i> ," <i>Journal of Biological Chemistry</i> , Vol. 276, No. 34, (08/24/01) pages 31561-31566
	C2	Saito, Tamao and Ochiai, Hiroshi, "Identification of DELTA5-Fatty Acid Desaturase from the Cellular Slime Mold <i>Dictyostelium Discoideum</i> ," <i>Eur. J. Biochem.</i> , Vol. 265, (1999), pages 809-814
	C3	Leonard, Amanda E., et al., "cDNA Cloning and Characterization of Human DELTA5-Desaturase Involved in the Biosynthesis of Arachidonic Acid," <i>Biochem J.</i> , Vol. 347, (2000), pages 719-724
	C4	Cho, Hyekyung P., et al., "Cloning, Expression, and Fatty Acid Regulations of the Human DELTA-5 Desaturase," <i>The Journal of Biological Chemistry</i> , Vol. 274, No. 52, (12/24/99) pages 37335-37339
	C5	Sakuradani, Eiji, et al., "DELTA6-Fatty Acid Desaturase from and Arachidonic Acid-Producing Mortierella Fungus Gene Cloning and its Heterologous Expression in a Fungus, <i>Aspergillus</i> ," <i>GENE: An International Journal on Genes and Genomes</i> , Vol. 238, No. 2, (1999), pages 445-453
	C6	Huang, Yung-Sheng, et al., "Cloning of DELTA12- and DELTA6-Desaturases from Mortierella Alpina and Recombinant Production of GAMMA-Linolenic Acid in <i>Saccharomyces Cerevisiae</i> ," <i>Lipids</i> , Vol. 34, No. 7, (07/99), pages 649-659
DS	C7	Alonso, D. Lopez, et al., "Plants as 'Chemical Factories' for the Production of Polyunsaturated Fatty Acids," <i>Biotechnology Advances</i> , Vol. 18, (2000), pages 481-497

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DATE: JUNE 1, 2004

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) JUN 04 2004 PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 6763.US.P1	SERIAL NO. 10/054,534
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT P. Mukerji, et al.	
		FILING DATE January 22, 2002	GROUP 1802 1/36
(37 CFR 1.98 (b))			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
DS	A1	5,447,974	08/22/1995	Hitz, et al. Peng	523	915	
	A2	5,552,306	09/03/1996	Thomas, et al.	435	134	
	A3	5,912,120	06/15/1999	Goldstein, et al.	435	6	
	A4	5,107,065	04/21/1992	Shewmaker, et al.	800	29	
	A5	5,231,020	07/27/1993	Jorgensen, et al.	800	281	
	A6	4,945,050	07/31/1990	Sanford, et al.	435	459	
	A7	4,683,202	07/28/1987	Mullis	435	912	
	A8	4,582,788	04/15/1986	Erlich	435	6	
	A9	4,683,194	07/28/1987	Saiki, et al.	435	6	
	A10	5,750,176	05/12/1998	Prieto, et al.	926	580	
	A11	5,700,671	12/23/1997	Prieto, et al.	800	29	
	A12	5,463,174	10/31/1995	Moloney, et al.	800	294	
	A13	4,943,674	07/24/1990	Houck, et al.	800	287	
	A14	5,106,739	04/21/1992	Comai, et al.	800	294	
	A15	5,175,095	12/29/1992	Martineau, et al.	435	691	
	A16	5,420,034	05/30/1995	Kridl, et al.	435	919	
	A17	5,188,958	02/23/1993	Moloney, et al.	800	500	
	A18	5,589,379	12/31/1996	Kridl, et al.	435	919	
	A19	5,004,863	04/02/1991	Umbeck	800	314	
	A20	5,159,135	10/27/1992	Umbeck	800	314	
	A21	5,518,908	05/21/1996	Corbin, et al.	800	279	
	A22	5,569,834	10/29/1996	Hinchee, et al.	800	312	
	A23	5,416,011	05/16/1995	Hinchee, et al.	800	294	
	A24	5,631,152	05/20/1997	Fry, et al.	800	269	
	A25	4,826,877	05/02/1989	Stewart, et al.	514	560	
	A26	4,666,701	05/19/1987	Horrobin, et al.	514	558	
	A27	4,758,592	07/19/1988	Horrobin, et al.	514	549	
DS	A28	5,116,871	05/26/1992	Horrobin, et al.	514	560	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC-ATION	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION
			DATE				YES NO
DS	B1	WO 93/11245	06/10/1993	PCT			
DS	B2	WO 94/11516	05/26/1994	PCT			
DS	B3	WO 96/13591	05/09/1996	PCT			
DS	B4	850424	09/18/1985	EPO			
DS	B5	84796	05/12/1990	EPO			
DS	B6	258017	04/16/1997	EPO			
DS	B7	237362	10/21/1998	EPO			
DS	B8	201184	12/16/1992	EPO			
DS	B9	WO 95/24494	09/14/1995	PCT			
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			10/25/04				

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		P. Mukerji, et al.	
(Use several sheets if necessary)		FILING DATE	GROUP
		January 22, 2002	1632 16-36

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

PK	C1	The Faseb Journal, Abstracts, Part I, Abstract 3093, p. A532, Experimental Biology 98, San Francisco, CA (4/18-22/1998)
	C2	Altschul, et al., Nucleic Acids Research, Gapped Blast and PSI-Blast: A New Generation of Protein Database Search Programs, 25: 3389-3402 (1997)
	C3	Okamuro & Goldberg, Biochemistry of Plants, Regulation of Plant Gene Expression: General Principles, 15:1-82 (1989)
	C4	Turner & Foster, Molecular Biotechnology, The Potential Exploitation of Plant Viral Translational Enhancers in Biotechnology for Increased Gene Expression, 3:225 (1995)
	C5	Ingelbrecht, et al., Plant Cell, Different 3' End Regions Strongly Influence the Level of Gene Expression in Plant Cells, 1:671-680 (1989)
	C6	Klein, et al., Nature (London), High-Velocity Microprojectiles for Delivering Nucleic Acids Into Living Cells, 327:70-73 (1987)
	C7	Ishida Y., et al., Nature Biotech, High Efficiency Transformation of Maize (Zea mays L.) Mediated by Agrobacterium Tumefaciens, 14:745-750 (1996)
	C8	Mulles, et al., Cold Spring Harbor Symp. Quant. Biol., Specific Enzymatic Amplification of DNA In Vitro: The Polymerase Chain Reaction, 51:263-273 (1986)
	C9	Jones, et al., EMBO J., High Level Expression of Introduced Chimaeric Genes in Regenerated Transformed Plants, 4:2411-2418 (1985)
	C10	DeAlmeida, et al., Mol. Gen. Genetics, Transgenic Expression of Two Marker Genes Under The Control of an Arabiodopsis rbcS Promoter: Sequences Encoding the Rubisco Transit Peptide Increase Expression Levels, 218:78-86 (1989)
	C11	Schnieke, et al., Science, Human Factor IX Transgenic Sheep Produced by Transfer of Nuclei From Transfected Fetal Fibroblasts, 278:2130-2133 (1997)
	C12	McCabe et al., Biol Technology, Stable Transformation of Soybean (Glycine Max) by Particle Acceleration, 6: 923 (1988)
	C13	Christou, et al., Plant Physiol, Stable Transformation of Soybean Callus by DNA-Coated Gold Particles, 87:671-674 (1988)
	C14	McKently et al., Plant Cell Rep, Agrobacterium-Mediated Transformation of Peanut (Arachis Hypogaea L.) Embryo Axes and the Development of Transgenic Plants, 14:699-703 (1995)
	C15	Grant, et al., Plant Cell Rep, Transformation of Peas (Pisum Sativum L.) Using Immature Cotyledons, 15:254-258 (1995)
	C16	Bytebler, et al., Proc Natl Acad Sci, T-DNA Organization in Tumor Cultures and Transgenic Plants of the Monocotyledon Asparagus Officinalis, (USA) 84:5354 (1987)
	C17	Wan & Lemaux, Plant Physiol, Generation of large Numbers of Independently Transformed Fertile Barley Plants, 10:37 (1994)
	C18	Rhodes, et al., Science, Genetically Transformed Maize Plants from Protoplasts, 240:204 (1988)
	C19	Gordon-Kamm, et al., Plant Cell, Transformation of Maize Cells and Regeneration of Fertile Transgenic Plants, 2:603-618 (1990)
	C20	Fromm, et al., Biol Technology, Inheritance and Expression of Chimeric Genes in the Progeny of Transgenic Maize Plants, 8:833 (1990)
	C21	Koziel, et al., BioTechnology, Field Performance of Elite Transgenic Maize Plants Expressing an Insecticidal Protein Derived from Bacillus Thuringiensis, 11:194 (1993)
	C22	Armstrong, et al., Crop Science, Cell Biology & Molecular Genetics, 35:550-557 (1995)
	C23	Somers, et al., Biol Technology, Fertile, Transgenic Oat Plants, 10:15 89 (1992)
	C24	Horn, et al., Plant Cell Rep, Transgenic Plants of Orchardgrass (Dactylis Glomerata L.) From Protoplasts, 7:469 (1988)
PK	C25	Park, et al., Plant Mol. Biol., T-DNA Integration Into Genomic DNA of Rice Following Agrobacterium Inoculation of Isolated Shoot Apices, 32:1135-1148 (1996)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		FILING DATE January 22, 2002	GROUP 1637 1636

<input checked="" type="checkbox"/>	C26	Abnedina, et al., <u>Aust. J. Plant Physiol.</u> , An Efficient Transformation System for the Australian Rice Cultivar, Jarrah, 24:133-141 (1997)
	C27	Zhang & Wu, <u>Theor. Appl. Genet.</u> , Efficient Regeneration of Transgenic Plants from Rice Protoplasts and Correctly Regulated Expression of the Foreign Gene in the Plants, 76:835 (1988)
	C28	Baltraw & Hall, <u>Plant Sci.</u> , Expression of a Chimeric Neomycin Phosphotransferase II Gene in First and Second Generation Transgenic Rice Plants, 86:191-202 (1992)
	C29	Christou, et al., <u>Biol. Technology</u> , Production of Transgenic Rice (<i>Oryza Sativa L.</i>) Plants From Agronomically Important Indica and Japonica Varieties Via Electric Discharge Particle Acceleration of Exogenous DNA Into Immature Zygotic Embryos, 9:957 (1991)
	C30	De La Pena, et al., <u>Nature</u> , Transgenic Rye Plants Obtained by Injecting DNA Into Young Floral Tillers, 325:274 (1987)
	C31	Bower & Birch, <u>Plant J.</u> , Transgenic Sugarcane Plants Via Microprojectile Bombardment, 2:409 (1992)
	C32	Wang, et al. <u>Biol. Technology</u> , Transgenic Plants of Tall Fescue (<i>Festuca Acrundinacea Schreb.</i>) Obtained by Direct Gene Transfer to Protoplasts, 10:691 (1992)
	C33	Vasil, et al. <u>Biol. Technology</u> , Herbicide Resistant Fertile Transgenic Wheat Plants Obtained by Microprojectile Bombardment of Regenerable Embryogenic Callus, 10:667 (1992)
	C34	Marcotte, et al., <u>Nature</u> , Regulation of a Wheat Promoter by Abscisic Acid in Rice Protoplasts, 335:454-457 (1988)
	C35	McCarty, et al., <u>Plant Cell</u> , Molecular Analysis of Viviparous-1: An Abscisic Acid-Sensitive Mutant of Maize, 1:523-532 (1989)
	C36	McCarty, et al., <u>Cell</u> , The Viviparous-1 Developmental Gene of Maize Encodes a Novel Transcriptional Activator, 66:895-905 (1991)
	C37	Hattori, et al., <u>Genes Dev.</u> , The Viviparous-1 Gene and Abscisic Acid Activate the C1 Regulatory Gene for Anthocyanin Biosynthesis During Seed Maturation in Maize, 6:609-618 (1992)
	C38	Goff, et al., <u>EMBO J.</u> , Transactivation of Anthocyanin Biosynthetic Genes Following Transfer of B Regulatory Genes into Maize Tissues, 9:2517-2522 (1990)
	C39	Horrobin, et al., <u>Am. J. Clin. Nutr.</u> , Fatty Acid Metabolism in Health and Disease: The Role of Δ -6-Desaturase, 57:7325-7345
	C40	Brenner, et al., <u>Adv. Exp. Med. Biol.</u> , Function and Biosynthesis of Lipids, 83:85-101 (1976)
	C41	Hoge, et al., <u>Exp. Mycology</u> , Absence of Differences in Polysomal RNAs From Vegetative Monokaryotic and Dikaryotic Cells of the Fungus <i>Schizophyllum Commune</i> , 6:225-232 (1982)
<input checked="" type="checkbox"/>	C42	Okuley, et al., <u>The Plant Cell</u> , <i>Arabidopsis FAD2</i> Gene Encodes the Enzyme That is Essential for Polyunsaturated Lipid Synthesis, 6:147-158 (1994)

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